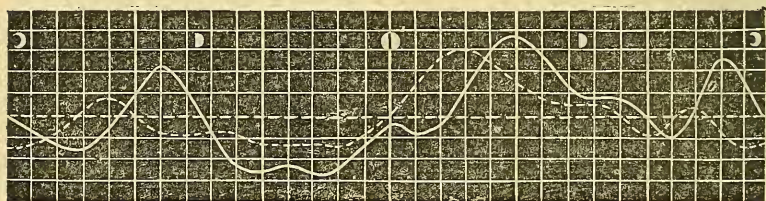


*Lunar-Monthly Rain-fall, from Observations of Signal Service Bureau,
and at Local Stations—CONTINUED.*

Lunar Day.	March, 1872 to Sept. 1873.	Sept. 1873 to April, 1875.	March, 1872 to April, 1875.	Philadelphia, 1825 to 1868.	San Francisco, 1849 to 1872.	Barbadoes 1847 to 1873.	Lisbon 1854 to 1870.
19.....	101	113	107	115	104	104	135
20.....	117	115	116	113	96	104	124
21.....	127	112	119	108	85	104	106
22.....	123	107	114	104	83	109	85
23.....	109	105	107	102	86	116	68
24.....	102	107	104	102	88	121	62
25.....	105	104	104	99	89	125	67
26.....	104	98	99	96	86	123	77
27.....	94	98	95	98	81	116	86
28.....	89	109	100	101	85	108	91
29.....	94	118	113	99	93	105	93
30.....	100	111	106	95	96	100	100

In the diagram each vertical space represents .05 of the mean rainfall; each horizontal space, a lunar day. The curves begin and end on the day of new moon. The Signal-Service curve for three years is the unbroken line; the Philadelphia curve for 43 years, the broken line.



Stated Meeting, January 1, 1875.

Present, 14 members.

Vice-President, MR. FRALEY, in the chair.

A letter accepting membership was received from Rawson W. Rawson, Esq., Governor of Barbadoes, dated Government House, Nov. 24, 1874.

Letters of acknowledgment were received from Royal In-

stitution, London, Dec. 2, 1874, (92); the Chemical Society, London, (92); the Society of Antiquaries, London, Dec. 8, 1874, (92; wanting 88); Mr. J. D. Cox, Toledo, Ohio, Dec. 24, 1874, (92); the Anthropological Institute of Great Britain and Ireland, London, 4 St. Martin's Place, W. C., Dec. 1, 1874, (92).

Letters requesting (62 and 88) missing numbers of the Proceedings were received from the Royal Geographical Society, London, 1 Saville Row, Burlington Gardens, W., Dec. 3, 1874.

A letter respecting publications for 1875 was received from Putnam & Sons, Fourth Avenue and Twenty-third street, New York, Dec. 17, 1874, for Amherst College.

A letter from A. H. Barclay, President, Rantoul Literary Society, Rantoul, Champaign County, Ill., Dec. 26, 1874, acknowledging receipt of (92) Proceedings and giving an account of the progress of that Society was read.

Donations for the Library were received from the Natural History Society at Emden, Royal Academy at Brussels, Geographical Society at Paris, *Rèvue Politique*, editors of *London Nature*, Boston Natural History Society, Worcester County Medical Association, Franklin Institute, editors of *Penn Monthly*, and the U. S. Department of the Interior.

Prof. Frazer exhibited a new and convenient retort for the manufacture of oxygen; a hollow cone of copper plate, fitting tightly down upon a short conical ring of copper plate, mounted upon a disc or base of the same, and forming a box to receive the residuum. Plaster of Paris is run into an outside groove to lute the joint. The instrument is cleaned with speed and ease; the resistance is so slight as to render an explosion little dangerous. Prof. Frazer claimed for it the merit only of being a convenient modification of Prof. Morton's apparatus.

Mr. Briggs described an explosion at Kirkbride's Hospital, by which the engineer of that institution was killed, although connection was made through a pipe 80 feet long.

He thought experimenters should take warning by the frequency of these accidents. Prof. Morton, after three explosions, made habitual use of a water trap.

Prof. Frazer then read a paper in defence of Prof. Tyndall, entitled "Criticism of the Belfast Address of Prof. Tyndall."

Prof. Chase communicated additional results respecting the Magnitude of Gravitating Waves. (See page 344.)

The report of the judges and clerks of the annual election was then read, by which it appeared that the following officers for the ensuing year had been elected:

For President,

George B. Wood.

For Vice-Presidents,

John C. Cresson, Isaac Lea, Frederick Fraley.

For Secretaries,

E. Otis Kendall, John L. LeConte, Pliny E. Chase, J. P. Lesley.

Councilors for three years,

Daniel R. Goodwin, Eli K. Price, W. L. W. Ruschenberger, Henry Winsor.

For Curators,

Joseph Carson, Charles M. Cresson, Hector Tyndale.

For Treasurer,

J. Sergeant Price.

J. P. Lesley was nominated as Librarian.

Pending nominations 764, 765 were read.

New nomination 766 was read.

And the meeting was adjourned.